

· Copy Bill & AND

388 East Boynton Road • Kaysville, Utah 84037 • (801) 544-3641

14 September 1991

Pamela Grubaugh-Littig
Permit Supervisor
Utah Division of Oil Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

REGETTYEU

SEP 1 6 1991

Ms. Grubaugh-Littig,

DIVISION OF OIL GAS & MINING

Re: NOV #N91-26-7-2, Primary Road Drainage Controls and Enlarged Shop Pad. Sear Canyon Mine, Co-Op Mining Company, ACT/015/025, Emery County, Utah

#2

The on-site visit held Friday 13 Sept 1991 was very helpful in understanding the concerns of Mr. Bill Malencik. We will be forwarding to the Division our response. We understand that the abatement has been extended to 25 Sept 1991.

Attached with this letter are copies of the sediment pond material tests and the compaction test results. The test labeled "SED POND" is from a composite sample taken from the material in the Temporary storage area that originated in the sediment ponds. The test labeled "91 SEDA FILL" was taken from the material from Sed Pond A that was used in the Shop Pad extension. Please notify me if there are any questions.

Thank you,

Kimlý C. Mangum, P.E.

Permitting & Compliance Consultant.

cc: Wm. J. Malencik Co-Op Mining Co. **LOWDERMILK**

NUCLEAR RELATIVE COMPACTION TEST DATA

Project Shap P3 1

Job Number Co- Op Mine

Date 8-29-91

Taken By w. J. K w. All

					iaken By_	aken By V. J. R. W. J.				
Test Number	1	2	3	4	5	6	7	8	9	0
Station										
Offset					·					
Elevation	Top of	TOP OL								
Mode & Depth	6046"	60+8"								
Density Count	2/58	1220								
Moisture Count	130	168						9		
Moisture PCF	132	126						•		
% Moisture	125	108								
Wet Density	1235	1295								
Dry Density	1098	1174								
Max. Obtainable Density		115-								
Optimum Moisture	10-	10-								
% Relative Compaction	955	1018								

STANDARD COUNT

Density Moisture

REMARKS:

Q is Onys Revolution of Trails

Burush Britarian Car . Breeze, blast



Inter-Mountain Laboratories, Inc.

2506 West Main Street

Farmington, New Mexico 87401

Tel. (505) 326-4737

CO-OP MINING COMPANY HUNTINGTON, UTAH MINE: BEAR CANYON

DATE REPORTED: September 11, 1991

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Lab No.	Location	Depths	рΗ	EC mmhos/cm @ 25°C	Satur- ation %	Calcium meq/l	Magnesium meq/l	Sodium meq/l	SAR	Coarse Fragments %	Sand %	Silt %	Clay %	Texture
13245	SED POND		8.5	2.49	28.9	17.4	7.10	4.04	1.15	58.8	65.8	24.7	9.5	SANDY LOAM
13246	91 SEDA FILL		7.9	2.84	27.8	18.9	12.8	3.46	0.87	17.7	57.3	29.6	13.1	Sandy Loam



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Lab No.	Location	Depths	Organic Matter %	Total Sulfur %	T.S. AB t/1000t	Neut. Pot. t/1000t	T.S. ABP t/1000t	Nitrate- Nitrogen ppm	Boron PPN	Avail Na meq/100g	Exch Na meq/100g
13245	SED POND		3.2	0.16	5.00	186.	181.	1.23	1.06	8.87	8.75
13246	91 SEDA FILL		5.7	0.04	1.25	241.	240.	0.97	0.60	8.13	8.03



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Water Retention Total 1/3 bar H20 So1 Bu1k 15 bar Difference Kjeldahl Density Selenium Lab No. Location Depths in/in* Nitrogen % ppm 13245 SED POND <0.1 1.20 0.30 6.7 5.7 <0.02 13246 7.3 91 SEDA FILL 2.10 <0.1 0.09 6.2 <0.02

^{*} Air dry bulk density was substituted for 1/3 bar bulk density in calculations.

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, ABPTA= Ammonium Bicarbonate-DPTA, AAO= Acid Ammonium Oxalate